

Jason Kim Dyer, Ph.D.
Curriculum Vitae 2004

D.O.B: 26th September 1968

Married

One Child (Emma)

ADDRESS:

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NATIONALITY: British Citizen; Permanent Canadian Resident (Landed Immigrant)

APPOINTMENTS:

2002-2003 ***Neuro Therapeutics Inc., Vice President and Chief Scientific Officer, SCI Therapeutics.***

As CSO I led the move of NTI into new premises (involving purchase decisions, set up planning, and coordination with various organizations to facilitate the move), built an enlarged research team and worked with management members to run the company. I was also responsible for directing the enlarged pre-clinical trial with human reagents for Immunological Demyelination therapy. This was a 6-month, ~250-animal, 8 staff effort, which demonstrated the efficacy of these reagents in preparation for an IND filing and clinical testing.

1999-2002 ***Neuro Therapeutics Inc., Co-Founder & Chief Scientific Officer***

Responsible for coordination of the early proof of principle experiments for the immunological demyelination therapy for Spinal Cord Injury repair. This involved working with large Pharma to development the human compatible reagents, demonstrate their efficacy in vitro and in animal models of SCI.

1999-2004 ***Neuro Therapeutics Inc., Board Of Directors and Chair of Scientific Advisory Board.***

1998-2002 ***Research Associate, CORD, University of British Columbia, Canada***

1996 ***Sessional Postdoctoral Teaching Position (Cellular Physiology-BIOL 350)***

EDUCATION & TRAINING:

1994-2002 ***Department of Zoology, University of British Columbia, Canada.***

1998-2002 ***Research Associate***

1996 ***Sessional Postdoctoral Teaching Position (Cellular Physiology-BIOL 350)***

1994-1998 ***Post-doctoral Fellow***

Investigating factors that facilitate and accelerate the repair of mature spinal cord after transection injury. Previously we have used the hatchling chick as our animal model. I extended these studies into the adult mammalian model. I employed a number of possible therapeutic techniques to facilitate recovery after injury, including transient complement-mediated, antibody-dependent myelin disruption/demyelination of the spinal cord, promotion of endogenous growth factor/tropic factor secretion, neurotrophin infusion, and suppression of monocyte and neutrophil inflammatory damage to the cord.

1990-1993 ***Department of Zoology, University of Bristol, UK***

- 1991 Neuro-Regeneration Laboratory of Organon Pharma, Oss, The Netherlands**
1993 Ph.D. Zoology
- 1987-1990 University of Liverpool, Department Of Physiology. UK.**
1990 B.Sc. Hons
- 1980-1987 Torquay Boys' Grammar School, Torquay, Devon. UK**

AWARDS AND FUNDING:

- 1999-2003** Private Investment – Operating funds for pre-clinical research at Neuro Therapeutics Inc. [total of \$2.6 million]
- 2000-2002** BC Neurotrauma Award - Operating Grant "Use of cDNA arrays to determine "novel" gene expression after spinal cord injury" [\$60 000]
- 1999-2000** BC Neurotrauma Award – Operating Grant "Anatomical and functional recovery after complete spinal cord injury and immunological myelin suppression" [\$27 000]
- 1999** EPVA Travel Award: Presentation at the 8th International Symposium on Neural Regeneration
- 1998-2000** BC Neurotrauma Award – Research Associate Salary
- 1997-1999** Network Centers of Excellence for Neuroscience Post-Doctoral Fellowship
- 1994-1997** Rick Hansen Man In Motion Legacy Fund Post-Doctoral Fellowship
- 1994-1997** Network Centers of Excellence for Neuroscience Training Supplement
- 1990-1993** Medical Research Council (UK) Collaborative Award in Science & Engineering Studentship

PUBLICATIONS:

Refereed Papers (8)

- 8) Hiebert, G.W., **Dyer, J.K.**, Steeves, J.D. and Tetzlaff, W. (2000) Immunological myelin disruption does not alter expression of regeneration-associated-genes in intact or axotomized rubrospinal neurons. *Exp. Neurol.* **162**:149-156.
- 7) Zhu, B., Moore, G.R.W., Zwimpfer, T.J., Kastrukoff, L.F., **Dyer, J.K.**, Steeves, J.D., Paty, D.W. and Cynader, M.S. (1999) Axonal cytoskeleton changes in experimental optic neuritis. *Brain Research.* **824**(2): 204-217
- 6) **Dyer, J.K.**, Bourque, J.A. and Steeves, J.D. (1998) Regeneration of brainstem-spinal axons after immunological disruption of myelin in adult rat. *Exp. Neurol.* **154**(1): 12-22.
- 5) Keirstead, H.S., **Dyer, J.K.**, Sholomenko, G.N., McGraw, J., Delaney, K.R. and Steeves, J.D. (1995) Axonal regeneration and physiological activity following transection and immunological disruption of myelin within the hatchling chick spinal cord. *J. Neurosci.* **15**(10): 6963-6974.
- 4) **Dyer, J.K.**, Philipsen, H.L.A., Tonnaer, J.A.D.M., Hermkens, P.H.H. and Haynes, L.W. (1995) Melanocortin analog Org2766 binds to rat Schwann cells, up-regulates the p75 NGF low affinity receptor and releases neurotrophic activity. *Peptides.* **16**(3): 515-522.

3) Haynes, L.W., Rushton, J.A., Perrins, M.F., Dyer, J.K., Jones, R., Howell, R. (1994) Diploid and hyperdiploid rat Schwann cell strains displaying negative autoregulation of growth *in vitro* and myelin sheath formation *in vivo*. *J. Neurosci. Methods*. **52**: 119-127.

2) Dyer, J.K., Ahmed, A.H.A., Oliver, G.W.J., Pouton, C.W. and Haynes, L.W. (1993) Solubilisation and partial characterization of the α -MSH receptor on primary rat Schwann cells. *FEBS Letts*. **336(1)**: 103-106.

1) Dyer, J.K., Philipsen, H.L.A., Tonnaer, J.A.D.M. and Haynes, L.W. (1993) An analysis of the binding specificity of the α -MSH derivative Org2766 on cultured rat Schwann cells. *Annals of the New York Academy of Sciences*. **680**: 496-498.

Abstracts - Published (22)

[* indicates poster award winner]

22) Dyer, J.K., van Rooijen, N. and Steeves, J.D. (2001) Myelin removal during immunological myelin suppression requires blood-derived monocytes. *Society for Neuroscience Abstr.* **26**: 699.3

21) Plunet W., Lewis, L., Becker, K.G., Wood III, W.H., Teichberg, D., Tetzlaff, W., Steeves, J.D. and Dyer, J.K. (2001) Use of cDNA arrays to examine gene expression after spinal cord injury. *Society for Neuroscience Abstr.* **26**: 257.1

20) Dyer, J.K., Cantu, C. and Steeves, J.D. (2000) Axonal regrowth and functional locomotor recovery after spinal cord transection and transient immunological myelin suppression. *Restorative Neurology and Neuroscience*. **16**: 271.

19) Dyer, J.K., Bourque, J.A. and Steeves, J.D. (2000) Role of macrophages and serum complement in experimental immunological demyelination of the CNS. *Restorative Neurology and Neuroscience*, **16**: 206.

18) Dyer, J.K., Bourque, J.A. and Steeves, J.D. (2000) Myelin removal during immunological myelin suppression is mediated by blood-derived macrophages. *Experimental Neurology*. **162**: 294.

17) Bourque, J.A., Dyer, J.K., Huguenot, C. and Steeves, J.D. (2000) The classical pathway, but not the alternative pathway, of the complement protein cascade is required for the immunological demyelination of the adult rat spinal cord. *Experimental Neurology*. **162**: 294.

16) Bourque, J.A., Dyer, J.K., Huguenot, C. and Steeves, J.D. (1999) The complete serum complement protein cascade is not required for the immunological demyelination of the adult rat spinal cord. *Society for Neuroscience Abstr.* **25(1)**: 739.

15) Dyer, J.K. and Steeves, J.D. (1998) Regeneration of chronic spinal cord injuries: a window of opportunity? *Intl. J. Dev. Neurosci* **16**:581. *

14) Bourque, J.A., Dyer, J.K., Reid, A., Huguenot, C. and Steeves, J.D. (1998) Immunological demyelination of the rat spinal cord: time course and characteristics. *Intl. J. Dev. Neurosci.* **16**:569.

13) Hiebert, G.W., Dyer, J.K., Steeves, J.D. and Tetzlaff, W. (1998) Immunological myelin suppression after acute thoracic spinal cord injury does not alter expression of regeneration-associated genes in the adult rat. *Intl. J. Dev. Neurosci.* **16**:569.

- 12) Zhu, B., Moore, G.R.W., Zwimpfer, T.J., Kastrukoff, L.F., **Dyer, J.K.**, Steeves, J.D., Paty, D.W. and Cynader, M.S. (1998) Axonal cytoskeleton changes in experimental optic neuritis. *Society for Neuroscience Abstracts* **24(2)**:1800.
- 11) **Dyer, J.K.**, Bourque, J.A., Reid, A., Huguenot, C. and Steeves, J.D. (1998) Regeneration of brainstem-spinal axons in the adult rat after acute & chronic lesion of the thoracic spinal cord & immunological treatment with serum complement proteins and myelin specific antibodies. *Experimental Neurology*. **151**:157
- 10) Bourque, J.A., **Dyer, J.K.**, Reid, A., Huguenot, C. and Steeves, J.D. (1998) Mammalian spinal cord demyelination induced by immunological treatment with serum complement proteins and myelin specific antibodies: time course and characteristics. *Experimental Neurology*. **151**:157.
- 9) Hiebert, G.W., **Dyer, J.K.**, Steeves, J.D. and Tetzlaff, W. (1998) Expression of regeneration-associated-genes after acute thoracic spinal cord injury and immunological myelin suppression in the rat. *Exp. Neurol.* **151**:157.
- 8) **Dyer, J.K.** and Steeves, J.D. (1997) Regeneration of brainstem-spinal axons in the adult rat after chronic lesion of the thoracic spinal cord and delayed myelin suppression. *Society for Neuroscience Abstracts* **23(2)**: 1997.
- 7) Hiebert, G.W., **Dyer, J.K.**, Steeves, J.D. and Tetzlaff, W. (1997) Expression of regeneration-associated-genes after acute thoracic spinal cord injury and immunological myelin suppression in the rat. *Society for Neuroscience Abstracts* **23(2)**: 1723.
- 6) **Dyer, J.K.**, Bourque, J. and Steeves, J.D. (1997) Immunological myelin disruption as a facilitator of axonal regeneration in the adult mammalian spinal cord after hemisection injury. In: "*Cell Biology and Pathology of Myelin: Evolutionary Biological Concepts and Therapeutic Approaches*". Ed. B.H.J. Juurlink. p 382.
- 5) **Dyer, J.K.** and Steeves, J.D. (1996) Regeneration of descending brainstem-spinal & corticospinal axons after immunological myelin disruption of the adult rat spinal cord. *Society for Neuroscience Abstracts*. **22(1)**: 764.
- 4) **Dyer, J.K.**, Keirstead, H.S., and Steeves, J.D. (1995) Immunohistochemical and ultrastructural studies of adult chick and mouse myelin after intraspinal injection of serum complement proteins and myelin specific antibodies. *Society for Neuroscience Abstracts*. **21(1)**: 313.
- 3) Keirstead, H.S., Sholomenko, G.N., **Dyer, J.K.**, Steeves, J.D. and Delaney, K.R. (1994) Transient immunological suppression of adult avian spinal cord myelin facilitates regeneration of brainstem-spinal neurons. *Society for Neuroscience Abstracts*. **20(1)**: 469.
- 2) **Dyer, J.K.**, Ahmed, A.H.A., Oliver, G.W.J., Moss, S.H., Pouton, C.W. and Haynes, L.W. (1993) Isolation of a Melanocortin receptor from rat Schwann cells in primary culture. *Pigment Cell Res.* **6**:308.
- 1) **Dyer, J.K.**, Philipsen, H.L.A., Haynes, L.W. and Tonnaer, J.A.D.M. (1992) Binding of the neuropeptide Org2766 to cultured rat Schwann cells. *Neuroscience Letters. Suppl.* **42**: S35.

Abstracts - Presented (14)

[* indicates poster award winner]

- 14) **Dyer, J.K.** and **Steeves, J.D.** (1998) Immunological myelin suppression as a therapy for the regeneration of chronic spinal cord injuries: a window of opportunity? *Proceedings of the Asia Pacific Symposium on Neural Regeneration*. 3-4th December 1998. Hong Kong, China. *
- 13) **Bourque, J.A., Dyer, J.K., Huguenot, C., Reid, A. and Steeves, J.D.** (1998) The role of complement in the immunological demyelination of the adult rat spinal cord. *Proceedings of the Asia Pacific Symposium on Neural Regeneration*. 3-4th December 1998. Hong Kong, China.
- 12) **Steeves, J.D., Pataky, D. and Dyer, J.K.** (1998) Accelerators and brakes on adult spinal cord repair. *Proceedings of the 5th IUBMB Conference on The Biochemistry of Health and Diseases*. 18-22nd October 1998. Jerusalem, Israel.
- 11) **Dyer, J.K., Tetzlaff, W. and Steeves, J.D.** Regeneration of brainstem-spinal axons in the adult rat after chronic lesion of the thoracic spinal cord and immunological treatment with serum complement proteins and myelin specific antibodies. *Proceedings of NCE Network for Neural Regeneration Meeting*. 21-24th May 1997. Vancouver, BC, Canada.
- 10) **Hiebert, G., Dyer, J.K., Steeves, J.D. & Tetzlaff, W.** Expression of regeneration-associated genes after thoracic spinal cord injury and immunological treatment with serum complement proteins and myelin specific antibodies. *Proceedings of NCE Network for Neural Regeneration Meeting*. 21-24th May 1997. Vancouver, BC, Canada.
- 9) **Dyer, J.K., Bourque, J., Huguenot, C. and Steeves, J.D.** Complement-mediated immunological myelin disruption as a facilitator of regeneration of descending projections in the adult rat spinal cord after lateral hemisection injury. *Proceedings of the 2nd IBC Annual International Conference on Controlling the Complement System for Novel Drug Development*. 3-4th October 1996. San Diego, USA.
- 8) **Dyer, J.K., and Steeves, J.D.** Immunological myelin disruption as a facilitator of regeneration of descending projections in the adult rat spinal cord after hemisection injury. *Proceedings of NCE Network for Neural Regeneration Meeting*. 28th May-1st June 1996. Ottawa, Ontario, Canada.
- 7) **Rushton, J.A., Dyer, J.K., Sherman, D.L., Brophy, P.J. and Haynes, L.W.** (1996) Partial characterization of autocrine Schwann cell growth-inhibitory factor, *Brain Research Association Abstracts*. 13:71.
- 6) **Rushton, J.A., Dyer, J.K., Sherman, D.L., Brophy, P.J. and Haynes, L.W.** Partial characterization of autocrine Schwann cell growth-inhibitory factor. *Proceedings of the 2nd European Meeting on Glial Cell Function in Health and Disease*. 21-25th April 1996. Arcachon, France.
- 5) **Dyer, J.K., and Steeves, J.D.** An Immunohistochemical and ultrastructural studies in the adult chick and mouse myelin after intraspinal injection of serum complement proteins with myelin specific antibodies. *Proceedings of NCE Network for Neural Regeneration Meeting*. 4-7th June 1995. St. Adele, Quebec, Canada.
- 4) **Keirstead, H.S., Sholomenko, G.N., Dyer, J.K., Peterson, A.C. and Steeves, J.D.** The effects of myelin suppression on adult spinal cord repair. *Proceedings of NCE Network for Neural Regeneration Meeting*. 9-12th June, 1994. Toronto, Canada.
- 3) **Rushton, J.A., Fielding, K., Vingoe, J., Dyer, J.K., Jones, R and Haynes, L.W.** Preliminary characterization of a Schwann cell inhibitory growth factor from F7 cells. *Proceedings of Glial Cell Meeting*. 24-26th May 1994. Heidelberg, Germany.

2) Rushton, J.A., Dyer, J.K., Jones, R. and Haynes, L.W. Presence of P- and L- selectins in immortalized rat Schwann cell line F7. *Proceedings of Glial Cell Meeting*. 24-26th May 1994. Heidelberg, Germany.

1) Haynes, L.W., Perrins, M.F., Rushton, J.A., Konings, P., Tonnaer, J.A.D.M. and Dyer, J.K. Expression of low affinity NGF and melanotropin neuropeptide receptors on an immortalized rat Schwann cell line. *Proceedings of the 40th European Tissue Culture Society*. 4-8th July 1993. Rennes, France.

Review Articles & Book Chapters(1):

1) Dyer, J.K., McGraw, J., Bourque, J. and Steeves, J.D. (1997) Overcoming myelin-associated inhibition of axonal regeneration after CNS injury. In: "Cell Biology and Pathology of Myelin: Evolutionary Biological Concepts and Therapeutic Approaches". Ed. B.H.J. Juurlink. p347.

PATENTS:

2) Composition for neuronal regeneration Compromising Myelin Specific Antibodies and Complement Proteins. Inventors: Steeves, J.D., Dyer, J.K., Keirstead, H.S. and Bourque J.A. Pending in USA, Canada, Australia, Europe, Israel and Japan.

1) Immunological Composition and its Method of use to Transiently Disrupt Mammalian Central Nervous System Myelin to Promote Neuronal Regeneration. Inventors: Steeves, J.D., Dyer, J.K. and Keirstead, H.S. Issued in Canada (May 1 2001, # 2,253,078), Australia (Sep 12 2002, #748143) USA (April 15 2003, #6,548,061) and Europe (Sept 10 2003, #10474490). Pending in USA, Japan, Israel and New Zealand.

MANUSCRIPTS IN PREPARATION:

Bourque, J.A., Dyer, J.K., Huguenot, C., Hudson, J.T. and Steeves, J.D. Role of complement in immunological demyelination. resubmission to *J. Neuroimmunology*.

Dyer, J.K., Bourque, J., van Rooijen, N. and Steeves, J.D. Role of blood derived monocytes and microglia in immunological demyelination. for submission to *Experimental Neurology*.

Dyer, J.K., Bourque, J., Huguenot, C., Reid, A. and Steeves, J.D. Immunological demyelination in the rat spinal cord, an ultrastructural and histological study. for submission to *Experimental Neurology*.

Dyer, J.K. and Steeves, J.D. Regeneration of chronically injured brainstem-spinal axons after immunological demyelination in the adult rat. for submission to *Journal of Neuroscience*.

Three others anticipated; deriving from the pre-clinical data collected at Neuro Therapeutics Inc.

INVITED PRESENTATIONS:

2002 "Immunological Approaches to Facilitate Functional Recovery after Spinal Cord Injury". *BioFuture 2002, The International Connection*. 22nd November 2002. Vancouver BC, Canada.

2001 "Research for the Cure of Paralysis" *Vancouver Spinal Cord Awareness Week*. 12th September 2001. Vancouver, BC, Canada

"Immunological Myelin Suppression to Facilitate Axonal Regeneration after CNS Injury" *FASEB 2001, American Association of Anatomists Session*. 3rd April 2001. Orlando, Florida, USA.

"Experimental Immunological Demyelination: cellular and humoral mediators" *Dept. Biol. Sci., Rutgers University Seminar Series*. 8th March 2001. Dept. Biol. Sci., Rutgers University, Newark NJ, USA.

1998 "Regeneration of Chronic Spinal Cord Injuries: A Window of Opportunity?" *International Society for Developmental Neuroscience (ISDN) 12th Biennial Meeting*. 15th August 1998. Vancouver, BC, Canada.

1995 "Progress and Perspectives in Spinal Cord Injury Repair". *U. Manitoba and Health Sciences Center Neuroscience Research Program*. 14th July 1995. Dept. Physiology, U. of Manitoba, Winnipeg, Canada.

"Myelin Disruption in the Adult CNS". *Proceedings of NCE Network for Neural Regeneration Meeting*. 4-7th June 1995. St. Adele, Quebec, Canada.

SCHEDULED PRESENTATIONS:

2001 "Mechanisms on Immunological Demyelination: a Novel Therapy for Spinal Cord Regeneration" *ISN/ASN Satellite Meeting, Myelin: Developmental Disorders and Neural Repair*. 4th September 2001. Colonia del Sacramento, Uruguay.

2000 "Role of macrophages and serum complement in experimental immunological demyelination of the CNS" *5th International Neurotrauma Symposium*. 1st-5th October 2000. Garmisch-Partenkirchen, Germany.

TEACHING EXPERIENCE:

2001 Supervision of 2 Research Technicians (Darren Sutherland and Fengtai Zhang)
Daily supervision of MSc student (Leanne Lewis)

2000 Supervision of Jason Bourque (MSc Student) now Medical Student at U.Toronto
Supervision of two summer research students (Carolina Cantu - now employed in Biotech, Jacqui Hudson - 4th year student)

1998 Instructor for BIOL120 elective (Neuropathology, Trauma and Disease)
UBC Connect Program

1997 Invited Lecturer in Developmental Neurobiology (BIOL 458, Dr. Wolfram Tetzlaff)
Instructor for BIOL120 elective (Neuropathology, Trauma and Disease)
Day-to-day supervisor of MSc (Jason Bourque)

1996 **Course co-instructor (~2 credits) in Cell Physiology** (BIOL 350, with Dr. Terry Crawford)
Invited lecturer in Honors Zoology (BIOL 447, Dr. David Jones)

Invited Lecturer in Developmental Neurobiology (BIOL 458, Dr. Wolfram Tetzlaff)

1995 Invited Lecturer in Comparative Neurobiology course (BIOL 455, Dr. V. Auld).
Co-supervisor of Directed Studies/Honors student (Karin Fleming)

1994 Guest Lecturer in 3rd year undergraduate developmental neurobiology/neuroscience course (BIOL 353, Dr. J.D. Steeves).

- Co-supervisor of Directed Studies student (Jason Bourque) - continued as EM technician, now MSc student.
- 1993 Demonstrator for a Tissue Culture Course, as held in 1991/92.
- 1992 Demonstrator for a Tissue Culture Course, as held in 1991.
Demonstrator on Stage III tissue culture module.
Instigator/co-supervisor of a Stage III research project on the raising/cloning of a rat Schwann cell line.
- 1991 Fourteen week placement to the laboratories of Organon in Oss, the Netherlands.
Continuation of research started in Bristol.
Demonstrator on Stage II Developmental Biology practical.
Academic tutor to 4 Stage II students.
Demonstrator for a Tissue Culture Course, run through the School of Continuing Education, held in the Department of Zoology, for industrial and academic personnel to acquire basic and specialized tissue culture techniques.
- 1990 Demonstrator on Stage I Microscopy and Stage II Developmental Biology laboratories.
Academic tutor to 5 Stage II students.
Demonstrator on Stage III tissue culture module.

ACADEMIC EXPERIENCE & RESEARCH TECHNIQUES:

Post-Doctoral Level:

Advanced neurosurgery - spinal cord (lesions and injections), stereotaxic injections (anterograde tracing)
Electron microscopy (ultrastructural)
Advanced tissue culture (U. of Saskatchewan Tissue Culture facility)
Polyclonal antibody production
Morphological microscopy
In Situ Hybridization
Basic molecular biology techniques (RT-PCR)

Graduate Student Level:

Neural cell and tissue culture - Schwann cells, DRG/motoneuron, cell line production
Immunohisto/cyto - chemistry
Monoclonal antibody production
Basic rodent neurosurgery (cell transplants)
Competitive pharmacological binding assays
Receptor isolation techniques
Basic protein chemistry
Developmental neurobiology
Protein purification

Undergraduate Level:

Tissue culture of bovine adrenal chromaffin cells
Second messenger assays
Neurotransmitter assays
Courses in: Cell Biology (structure and function of cell, organization and function of tissues)
Basic Biochemistry
Chemistry (Organic and Inorganic/Physical)
Pharmacology (drug metabolism and toxicity, autonomic and neuropharmacology, quantitative pharmacology and drug metabolism)
Physiology (Introduction to Human physiology, endocrine and metabolic physiology,

neurophysiology and excitable tissues)
Human evolutionary biology
Honors Physiology (chemical signaling mechanisms, second messengers, ion channels, the cytoskeleton and developmental neurobiology, synaptic functions; CNS, digestive, hepatic, muscular physiology, electrophysiology, patch-clamping, protein chemistry)

AFFILIATIONS:

Society for Neuroscience
National Neurotrauma Society
BC Biotechnology

AD HOC REVIEWER:

Journal of Neuroscience
Multiple Sclerosis Society of Canada
Medical Research Council of Canada

REFEREES:

Dr. J. D. Steeves
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